Contents of Volume 27

Nos. 1,2

Minireviews

R.D. Handy (UK)
The effect of acute exposure to dietary Cd and Cu on organ toxicant concentrations in rainbow trout, *Oncorhynchus mykiss* 1

G.J. Lien and J.M. McKim (USA)
Predicting branchial and cutaneous uptake of 2,2′,5,5′-tetrachlorobiphenyl in fathead minnows (*Pimephales promelas*) and Japanese medaka (*Oryzias latipes*): Rate limiting factors 15

G. Holm, L. Norrgren, T. Andersson and A. Thurén (Sweden)
Effects of exposure to food contaminated with PBDE, PCN or PCB on reproduction, liver morphology and cytochrome P450 activity in the three-spined stickleback, *Gasterosteus aculeatus* 33

A.S. Kane, W.W. Day, R. Reimschuessel and M.M. Lipsky (USA)
3-Trifluoromethyl-4-nitrophenol (TFM) toxicity and hepatic microsomal UDP-glucuronyltransferase activity in larval and adult bullfrogs 51

W.R. Gala and J.P. Giesy (USA)
Using the carotenoid biosynthesis inhibiting herbicide, Fluridone, to investigate the ability of carotenoid pigments to protect algae from the photo-induced toxicity of anthracene 61

A. Tahir, T.C. Fletcher, D.F. Houlihan and C.J. Secombes (UK)
Effect of short-term exposure to oil-contaminated sediments on the immune response of dab, *Limanda limanda* (L.) 71

J.W. Nichols, J.M. McKim, G.J. Lien, A.D. Hoffman, S.L. Bertelsen and C.A. Gallinat (USA)
Physiologically-based toxicokinetic modeling of three waterborne chloroethanes in channel catfish, *Ictalurus punctatus* 83

M. Brick and U. Deutsch (Germany)
Ultrastrucutral investigations of the penis epithelia cells of three neogastropods, collected from TBT (tributyltin)-polluted areas 113

A.D. Lemly (USA)
Metabolic stress during winter increases the toxicity of selenium to fish 133

Peter Thomas and H.W. Wofford (USA)
Effects of cadmium and Aroclor 1254 on lipid peroxidation, glutathione peroxidase activity, and selected antioxidants in Atlantic croaker tissues 159

H. Dabrowska and S.W. Fisher (USA)
Environmental factors affecting the accumulation of sediment-sorbed hexachlorobiphenyls by channel catfish 179

Announcement 199

Announcement from the Publisher 200

Nos. 3,4

Minireviews

P.E. Davies and L.S.J. Cook (Australia)
Catastrophic macroinvertebrate drift and sublethal effects on brown trout, *Salmo trutta*, caused by cypermethrin spraying on a Tasmanian stream 201

S. Courtenay, C. Grunwald, G.-L. Kreamer, R. Alexander and I. Wirgin (Canada, USA)
Induction and clearance of cytochrome P4501A mRNA in Atlantic tomcod caged in bleached kraft mill effluent in the Miramichi River 225

D.L. Nikl and A.P. Farrell (Canada)
Reduced swimming performance and gill structural changes in juvenile salmonids exposed to 2-(thiocyanomethylthio)benzothiazole 245

L. Cleveland, E.E. Little, D.R. Buckler and R.H. Wiedmeyer (USA)
Toxicity and bioaccumulation of waterborne and dietary selenium in juvenile bluegill (*Lepomis macrochirus*) 265

J.-C. Chen and S.-Y. Cheng (Taiwan)
Hemolymph PCO_2, hemocyanin, protein levels and urea excretions of *Penaeus monodon* exposed to ambient ammonia 281

B.T. Johnson (USA)
Genotoxicity testing with fish hepatic S9 for evaluation of complex mixtures in the aquatic environment: the use of channel catfish as a model 293

M.J. Bebianno, J.A. Nott and W.J. Langston (Portugal, England)
Cadmium metabolism in the clam *Ruditapes decussata*: the role of metallothioneins 315

X.R. Michel, P. Suteau, L.W. Robertson and J.-F. Narbonne (France, USA)
Effects of benzo(a)pyrene, 3,3′,4,4′-tetrachlorobiphenyl and 2,2′,4,4′,5,5′-hexachlorobiphenyl on the xenobiotic-metabolizing enzymes in the mussel (*Mytilus galloprovincialis*) 335

D.T.H.M. Sijm, G. Schaap and A. Opperhuizen (The Netherlands)
The effect of the biotransformation inhibitor piperonylbutoxide on the bioconcentration of 2,8-dichlorodibenzo-*p*-dioxin and pentachlorobenzene in goldfish 345

S. Jobling and J.P. Sumpter (UK)
Detergent components in sewage effluent are weakly oestrogenic to fish: An in vitro study using rainbow trout (*Oncorhynchus mykiss*) hepatocytes 361

G.L. Lacroix, R.H. Peterson, C.S. Belfry and D.J. Martin-Robichaud (Canada)
Aluminum dynamics on gills of Atlantic salmon fry in the presence of citrate and effects on integrity of gill structures 373

Announcement 403

Contents to volume 27 405

Author Index 407

Announcement from the Publisher 409